



IN THE CLAIMS

Please amend the claims as follows:

1 (Withdrawn): A magnetic head apparatus comprising:

a load beam to which a slider is attached;

an elastically deformable portion that is provided on said load beam so that a floating structure that allows said load beam to swing is formed about said elastically deformable portion; and

a projection bulging from said load beam that is adapted to function as a load generating portion;

wherein a pressing load of said slider against a recording medium is set by a pressure applied to a top portion of said projection.

2 (Withdrawn): A magnetic head apparatus comprising:

a load beam to which a slider is attached;

an elastically deformable portion that is provided on said load beam so that a floating structure that allows said load beam to swing is formed about said elastically deformable portion; and

a projection bulging from said load beam that is adapted to function as a load generating portion;

wherein said projection is adapted to coincide with a balanced fulcrum about said load beam; and

a pressing load of said slider against a recording medium is set by a pressure applied to a top portion of said projection.

3 (Withdrawn): A magnetic head apparatus comprising:

a base plate adapted to be attached to a head arm;
a load beam that extends from the base plate;
a slider attached to said load beam;
an elastically deformable portion that is provided between said base plate and said load beam so that a floating structure that allows said load beam to swing is formed about said elastically deformable portion;
a projection bulging from said load beam that is adapted to function as a load generating portion;
wherein said projection is adapted to coincide with a balanced fulcrum about said load beam;
a pressing load is applied to a surface of a recording medium via said slider; and
the pressing load of said slider against the recording medium is set by a pressure applied to a top portion of said projection.

4 (Withdrawn): A magnetic head apparatus according to any one of claims 1 to 3, wherein said projection bulging from said load beam sets such a limited area around said projection with which when an impact within a predetermined value range is applied to said load beam in a vertical direction, deformation of said load beam would remain within elastic deformation range.

5 (Withdrawn): A magnetic head supporting mechanism comprising:
a magnetic head apparatus including a base plate and a load beam extending from the base plate;
a head arm attached to said base plate;
a slider attached to said load beam;

an elastically deformable portion provided between said base plate and said load beam, said elastically deformable portion being flexible so that a floating structure that allows said load beam to swing is formed about said elastically deformable portion; and

a projection bulging from said load beam that is adapted to function as a load generating portion;

wherein a pressing load is applied to a surface of a recording medium via said slider; and

the pressing load of said slider against the recording medium is set by a pressure applied to a top portion of said projection.

6 (Withdrawn): A magnetic head supporting mechanism comprising:

a magnetic head apparatus including a base plate and a load beam extending from the base plate;

a head arm attached to said base plate;

a slider attached to said load beam;

an elastically deformable portion provided between said base plate and said load beam, said elastically deformable portion being flexible so that a floating structure that allows said load beam to swing is formed about said elastically deformable portion; and

a projection bulging from said load beam that is adapted to function as a load generating portion;

wherein said projection is adapted to coincide with a balanced fulcrum about said load beam;

a pressing load is applied to a surface of a recording medium via said slider; and

the pressing load of said slider against the recording medium is set by a pressure applied to a top portion of said projection.

7 (Withdrawn): A magnetic head supporting mechanism according to claim 5 or 6, wherein said projection bulging from said load beam sets such a limited area around said projection with which when an impact within a predetermined value range is applied to said load beam in a vertical direction, deformation of said load beam would remain within elastic deformation range.

8 (Currently Amended): A magnetic head supporting mechanism comprising:
a support arm swingable in a radial direction of a recording medium and in a direction perpendicular to a recording surface of the recording medium with a bearing portion being a pivot;

a head slider attached to a lower surface of said support arm at one end of said support arm;

a plurality of projections which bulge from said support arm and are in point contact with the bearing portion; and

elastic means provided on said support arm for imparting a biasing force in the direction toward said recording medium, ~~to said support arm~~ said biasing force being generated by deforming said elastic member by said projections; and

~~a projection bulging from said support arm adapted to be in point contact with a part of bearing portion;~~

~~wherein said support arm is adapted to be swingable in the direction perpendicular to the recording surface, with a point at which a top portion of said projection and said part of bearing portion are in contact with each other~~ being to provide a balanced fulcrum.

9 (Currently Amended): A head supporting mechanism according to claim 8, wherein an area of said projections are set so that projection bulging from said arm sets such a limited area around said projection with which when an impact within a predetermined value range is applied to said support arm in a vertical direction, deformation of a portion in the vicinity of said projections ~~projection~~ would remain within a elastic deformation range.

10 (Withdrawn): A magnetic recording apparatus equipped with a magnetic head apparatus according to any one of claims 1 to 3.

11 (Currently Amended): A magnetic recording apparatus comprising: ~~equipped with a magnetic head supporting mechanism according to any one of claims 5, 6 and 8~~

a recording medium having a recording surface;

a support arm swingable in a radial direction of a recording medium and in a direction perpendicular to a recording surface of the recording medium with a bearing portion being a pivot;

a slider attached to a lower surface of said support arm at one end of said support arm;

a plurality of projections which bulge from said support arm and are in point contact with the bearing portion; and

elastic means provided on said support arm for imparting a biasing force in the direction toward said recording medium, said biasing force being generated by deforming said elastic member by said projections;

wherein a top portion of said projection and said part of bearing portion are in contact with each other to provide a balanced fulcrum.